

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/593,532
Source: FEUP
Date Processed by STIC: 9/27/06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/593,532

DATE: 09/27/2006

TIME: 10:17:32

Input Set : A:\Herr-SFEC-00973-05-SEQ.txt
 Output Set: N:\CRF4\09272006\J593532.raw

3 <110> APPLICANT: University of Virginia Patent Foundation
 4 Herr, John C.
 5 Kim, Young-Hwan
 7 <120> TITLE OF INVENTION: SFEC, A Sperm Flagellar Energy Carrier Protein
 9 <130> FILE REFERENCE: 00973-05
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/593,532
 C--> 11 <141> CURRENT FILING DATE: 2006-09-18
 11 <150> PRIOR APPLICATION NUMBER: US 60/554,085
 12 <151> PRIOR FILING DATE: 2004-03-17
 14 <150> PRIOR APPLICATION NUMBER: PCT/US05/08906
 15 <151> PRIOR FILING DATE: 2005-03-17
 17 <150> PRIOR APPLICATION NUMBER: US 60/614,817
 18 <151> PRIOR FILING DATE: 2004-09-30
 20 <160> NUMBER OF SEQ ID NOS: 4
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 1727
 26 <212> TYPE: DNA
 27 <213> ORGANISM: homo sapiens
 29 <400> SEQUENCE: 1
 30 aagtgccact ttctccggc tacgatgctg cagcggtttt ccgggtttcc gcttcccttc 60
 32 atcgttagctc ccgtactcat ttttagccac tgctccgggt ttttatatcc ttctccatca 120
 34 tgcacatcgta gcctgcgaaa aagaaggcag aaaaggcgct gtttgacgccc tcacatccctcg 180
 36 ggaaggacacct tctggccggc ggagtgcggc cagctgtgtc caagacacagcg gtggcgccca 240
 38 tcgagcgggt gaagctgctg ctgcagggtgc aggctcggtc gaagcagatc agccccgagg 300
 40 cgcggtacaa aggcatggtg gactgcctgg tgcggattcc tgcgcgacgag ggtttcttca 360
 42 gtttttggcg tggcaatttg gcaaatgtta ttcggatttt tccaaacacaaa gctctaaact 420
 44 ttgcatttaa ggacaatac aagcagctat tcatgtctgg agttaataaaa gaaaaacagt 480
 46 tctggaggtg gtttttggca aacctggctt ctggggagc tgctggggca acatcccttat 540
 48 gtgttagata tcctctagat ttggcccgaa cccgatttagg tgcgtatatt ggaaaaggc 600
 50 ctgaggagcg acaattcaag gtttaggtg actgtattat gaaaatagca aaatcagatg 660
 52 gaattgctgg tttataccaa gggtttgggt tttcagtaca gggcatcatt gtgtaccgag 720
 54 cctcttattt tggagcttat gacacagtta agggtttattt accaaagcca aagaaaactc 780
 56 catttcttgt ctccttttc attgctcaag ttgtgactac atgctctgga atactttctt 840
 58 atcccttga cacagttaga agacgtatga tgcgtcagag ttgtgaggtt aaacggcaat 900
 60 ataaaggAAC cttagactgc ttgtgaaaga tataccaaca tgaaggaaatc agttcccttt 960
 62 ttctgtggcgc ttctccaat gtcttcgcg gtacaggggg tgctttgggt ttggatttat 1020
 64 atgataaaat taaagaattc ttcatattt atattgggg taggtaatcg ggagagtaaa 1080
 66 ttaagaaata catggattta acttggtaaa catacaaatt acatagctgc catttcata 1140
 68 cattttgata gtgttattgt ctgttatttg ttaaagtgc agttctgcaa taaagcatac 1200
 70 atttttcaa gaatttaaat actaaaaatc agataaatgt gatatttcct cccacttaga 1260
 72 ctcaaaacaca tttagtgtt atatttcatt tattataggt agtataattt aatttggtag 1320
 74 tttaaaattc tttagtgc tatattcatt tattataggt agtataattt aatttggtag 1380

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/593,532

DATE: 09/27/2006

TIME: 10:17:32

Input Set : A:\Herr-SPEC-00973-05-SEQ.txt

Output Set: N:\CRF4\09272006\J593532.raw

76 aggaaatgaa agtagcgtct tttaaattgc tattcattta atatacctgt tttcccatct 1440
 78 tttaaaggta tatggtatga catatttctt aaaagctt caatagatgt catcatatgt 1500
 80 gtaggcagaa ataagcttg ttctatatct cttctaagac agttgttatt actgtgtata 1560
 82 atatttacag ttcagccctt tgattataga tgtgtatcatt taaaatttga taatgacttt 1620
 84 agtgacatta taaaactgaa actggaaaat aaaatggctt atctgctgtat gtttatctt 1680
 86 aaaataaaata aaatcttgct agtgtgaata caaaaaaaaaaaaaaaa 1727
 89 <210> SEQ ID NO: 2
 90 <211> LENGTH: 315
 91 <212> TYPE: PRT
 92 <213> ORGANISM: homo sapiens
 94 <400> SEQUENCE: 2
 96 Met His Arg Glu Pro Ala Lys Lys Lys Ala Glu Lys Arg Leu Phe Asp
 97 1 5 10 15
 100 Ala Ser Ser Phe Gly Lys Asp Leu Leu Ala Gly Gly Val Ala Ala Ala
 101 20 25 30
 104 Val Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val Lys Leu Leu Leu
 105 35 40 45
 108 Gln Val Gln Ala Ser Ser Lys Gln Ile Ser Pro Glu Ala Arg Tyr Lys
 109 50 55 60
 112 Gly Met Val Asp Cys Leu Val Arg Ile Pro Arg Glu Gln Gly Phe Phe
 113 65 70 75 80
 116 Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg Tyr Phe Pro Thr
 117 85 90 95
 120 Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys Gln Leu Phe Met
 121 100 105 110
 124 Ser Gly Val Asn Lys Glu Lys Gln Phe Trp Arg Trp Phe Leu Ala Asn
 125 115 120 125
 128 Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu Cys Val Val Tyr
 129 130 135 140
 132 Pro Leu Asp Phe Ala Arg Thr Arg Leu Gly Val Asp Ile Gly Lys Gly
 133 145 150 155 160
 136 Pro Glu Glu Arg Gln Phe Lys Gly Leu Gly Asp Cys Ile Met Lys Ile
 137 165 170 175
 140 Ala Lys Ser Asp Gly Ile Ala Gly Leu Tyr Gln Gly Phe Gly Val Ser
 141 180 185 190
 144 Val Gln Gly Ile Ile Val Tyr Arg Ala Ser Tyr Phe Gly Ala Tyr Asp
 145 195 200 205
 148 Thr Val Lys Gly Leu Leu Pro Lys Pro Lys Lys Thr Pro Phe Leu Val
 149 210 215 220
 152 Ser Phe Phe Ile Ala Gln Val Val Thr Thr Cys Ser Gly Ile Leu Ser
 153 225 230 235 240
 156 Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln Ser Gly Glu
 157 245 250 255
 160 Ala Lys Arg Gln Tyr Lys Gly Thr Leu Asp Cys Phe Val Lys Ile Tyr
 161 260 265 270
 164 Gln His Glu Glu Gly Ile Ser Ser Phe Phe Arg Gly Ala Phe Ser Asn Val
 165 275 280 285
 168 Leu Arg Gly Thr Gly Gly Ala Leu Val Leu Val Tyr Asp Lys Ile
 169 290 295 300

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/593,532

DATE: 09/27/2006

TIME: 10:17:32

Input Set : A:\Herr-SFEC-00973-05-SEQ.txt

Output Set: N:\CRF4\09272006\J593532.raw

172 Lys Glu Phe Phe His Ile Asp Ile Gly Gly Arg
 173 305 310 315
 176 <210> SEQ ID NO: 3
 177 <211> LENGTH: 1577
 178 <212> TYPE: DNA
 179 <213> ORGANISM: Mus musculus
 181 <400> SEQUENCE: 3

182	agtgtcgctt	gagtggtgg	gtggcctgca	ggtgtccgg	tgcgggtcc	tctgtccaac	60
184	atgtcgaa	acgaaatcc	cggaa	tttcggact	tttttttttt	tttttttttt	120
186	ttctcgaa	aggaccc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	180
188	cccatcgag	gtgtga	tttttttttt	tttttttttt	tttttttttt	tttttttttt	240
190	gaggcgcgt	acaagggc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	300
192	ttaagtatt	ggcgtgg	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
194	aacttcgctt	ttaagg	tttttttttt	tttttttttt	tttttttttt	tttttttttt	420
196	cagttctg	gatgg	tttttttttt	tttttttttt	tttttttttt	tttttttttt	480
198	ttgtgtgt	tagtat	tttttttttt	tttttttttt	tttttttttt	tttttttttt	540
200	gttcctg	agcc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	600
202	gatggact	actt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	660
204	cgagcct	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	720
206	accccattt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	780
208	ttctatcc	tttgac	tttttttttt	tttttttttt	tttttttttt	tttttttttt	840
210	caatataa	agga	tttttttttt	tttttttttt	tttttttttt	tttttttttt	900
212	ttcttcc	gtgc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	960
214	ttatatg	ata	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1020
216	taaaattg	aatc	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1080
218	atata	atag	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1140
220	aaaaaaag	ttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1200
222	tagacc	ca	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1260
224	aaaattct	ta	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1320
226	cttcaattt	ttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1380
228	agttgaaa	ttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1440
230	gctatttgc	ttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1500
232	acattagatt	ttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1560
234	aaaaaaaa	aaaaaa	tttttttttt	tttttttttt	tttttttttt	tttttttttt	1577
237	<210>	SEQ ID NO:	4				
238	<211>	LENGTH:	320				
239	<212>	TYPE:	PRT				
240	<213>	ORGANISM:	Mus musculus				
242	<400>	SEQUENCE:	4				
244	Met Ser Asn Glu Ser Ser Lys Lys Gln Ser Ser Lys Lys Ala Leu Phe						
245	1	5	10	15			
248	Asp Pro Val Ser Phe Ser Lys Asp Leu Leu Ala Gly Gly Val Ala Ala						
249	20	25	30				
252	Ala Val Ser Lys Thr Thr Val Ala Pro Ile Glu Arg Val Lys Leu Leu						
253	35	40	45				
256	Leu Gln Val Gln Ala Ser Ser Lys Gln Ile Ser Pro Glu Ala Arg Tyr						
257	50	55	60				
260	Lys Gly Met Leu Asp Cys Leu Val Arg Ile Pro Arg Glu Gln Gly Phe						
261	65	70	75	80			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/593,532

DATE: 09/27/2006

TIME: 10:17:32

Input Set : A:\Herr-SFEC-00973-05-SEQ.txt

Output Set: N:\CRF4\09272006\J593532.raw

264 Leu Ser Tyr Trp Arg Gly Asn Leu Ala Asn Val Ile Arg Tyr Phe Pro
265 85 90 95
268 Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys Glu Leu Phe
269 100 105 110
272 Met Ser Gly Val Asn Lys Glu Lys Gln Phe Trp Arg Trp Phe Leu Ala
273 115 120 125
276 Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu Cys Val Val
277 130 135 140
280 Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Gly Val Asp Ile Gly Lys
281 145 150 155 160
284 Gly Pro Glu Gln Arg Gln Phe Thr Gly Leu Gly Asp Cys Ile Met Lys
285 165 170 175
288 Ile Ala Lys Ser Asp Gly Leu Ile Gly Leu Tyr Gln Gly Phe Gly Val
289 180 185 190
292 Ser Val Gln Gly Ile Ile Val Tyr Arg Ala Ser Tyr Phe Gly Ala Tyr
293 195 200 205
296 Asp Thr Val Lys Gly Leu Leu Pro Lys Pro Lys Glu Thr Pro Phe Leu
297 210 215 220
300 Val Ser Phe Ile Ile Ala Gln Ile Val Thr Thr Cys Ser Gly Ile Leu
301 225 230 235 240
304 Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln Ser Gly
305 245 250 255
308 Glu Ser Asp Arg Gln Tyr Lys Gly Thr Ile Asp Cys Phe Leu Lys Ile
309 260 265 270
312 Tyr Arg His Glu Gly Val Pro Ala Phe Phe Arg Gly Ala Phe Ser Asn
313 275 280 285
316 Ile Leu Arg Gly Thr Gly Gly Ala Leu Val Leu Val Leu Tyr Asp Lys
317 290 295 300
320 Ile Lys Glu Phe Leu Asn Ile Asp Val Gly Gly Ser Ser Ser Gly Asp
321 305 310 315 320

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/593,532

DATE: 09/27/2006

TIME: 10:17:33

Input Set : A:\Herr-SFEC-00973-05-SEQ.txt

Output Set: N:\CRF4\09272006\J593532.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date